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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of: Mark A. B. Halstead

PERSISTENT REPRESENTATIONS FOR COMPLEX DATA STRUCTURES AS INTERPRETED  
PROGRAMS

Attorney Docket No.: 777.090US1

**PATENT APPLICATION TRANSMITTAL**

**BOX PATENT APPLICATION**

Assistant Commissioner for Patents  
Washington, D.C. 20231

We are transmitting herewith the following attached items and information (as indicated with an "X"):

- Utility Patent Application under 37 CFR § 1.53(b) comprising:  
 Specification ( 18 pgs, including claims numbered 1 through 21 and a 1 page Abstract).  
 Formal Drawing(s) ( 5 sheets).  
 Signed Combined Declaration and Power of Attorney ( 3 pgs).  
 Check in the amount of \$976.00 to pay the filing fee.  
 Assignment of the invention to Microsoft Corporation ( 2 pgs) and Recordation Form Cover Sheet.  
 Check in the amount of \$40.00 to pay the Assignment recording fee.  
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The filing fee has been calculated below as follows:

	No. Filed	No. Extra	Rate	Fee
TOTAL CLAIMS	21 - 20 =	1	x 22 =	\$22.00
INDEPENDENT CLAIMS	5 - 3 =	2	x 82 =	\$164.00
[ ] MULTIPLE DEPENDENT CLAIMS PRESENTED				\$0.00
BASIC FEE				\$790.00
				<b>\$976.00</b>

Please charge any additional required fees or credit overpayment to Deposit Account No. 19-0743.

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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

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